

ULTRASONIC FLAW DETECTING METHOD

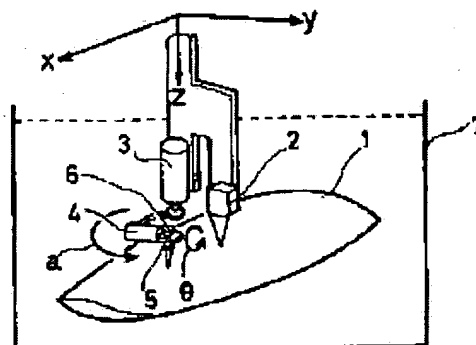
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Abstract of JP63309852

PURPOSE: To speed up flaw detection with high accuracy by storing a shape of a body to be measured, in a memory, calculating a controlled variable of a driving mechanism from a shape data stored in the memory, and bringing a driving part of each axis to an open loop control. **CONSTITUTION:** A distance sensor 2 and an alpha axis driving motor 3 are attached to the lower end of a three-dimensional scanner which can move in the directions of an (x) axis, a (y) axis and a (z) axis being orthogonal to each other, the sensor 2 is scanned at the upper part of a body to be measured 1, and a distance of the sensor in each point of the (x) and (y) axes is measured, and inputted to a computer.

Subsequently, by the computer, a point being at a prescribed distance in the normal direction in a point of the surface of the body to be measured 1 is derived and a tip position of a probe 6 is moved, always, made vertical to the surface of the body to be measured 1, and also, allowed to hold a prescribed distance. Next, from a characteristic function which is provided in advance, a controlled variable of a driving mechanism is generated by an arithmetic processing part, and a driving part is brought to an open loop control.



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